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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/604,277	07/08/2003	Thomas R. Bednar	BUR920020092US1	1276
30449 75	590 09/22/2004		EXAMINER	
SCHMEISER, OLSEN + WATTS			TAT, BINH C	
SUITE 201 3 LEAR JET			ART UNIT	PAPER NUMBER
LATHAM, NY	Y 12033		2825	
			DATE MAILED: 09/22/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ar .
	Application No.	Applicant(s)
	10/604,277	BEDNAR ET AL.
Office Action Summary	Examiner	Art Unit
	Binh C. Tat	2825
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of the provided of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>08 Jules</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under Expression in the Expressi	action is non-final.	
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 08 July 2003 is/are: a) ☐ Applicant may not request that any objection to the	wn from consideration. r election requirement. er. ⊠ accepted or b) □ objected to	•
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)	4) 🔲 Interview Summary	r (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D	

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DETAILED ACTION

1. This office action is in response to application 10/604277 filed on 07/08/03.

Claims 1-20 remain pending in the application.

Claim Objections

Claims 1, 6, 15, 19, and 20 objected to because of the following informalities: the hierarchical is misspelled in the claims. Appropriate correction is required.

Specification

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract of the disclosure is objected to because the abstract lacks narrative format.

Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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3. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Buffet et al. (U.S Patent 6631502).

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- 4. As to claims 1 and 10 Buffet et al. teach an integrated circuit comprising: a first voltage island having a hierarchal structure (see fig 1-4 col 5 line 1-30); and a second voltage island nested within said first voltage island, said second voltage island having the same hierarchal structure as said first voltage island (see fig 1-4 col 5 line 31 to col 6 lines 60).
- 5. As to claims 2 and 11 Buffet et al. teach wherein each voltage island includes one or more voltage selected from the group consisting of a VDDI power sup- power supplies, each ply, a VDDSS power supply and a VDDN power supply (see fig 1-4 col 5 line 31 to col 6 lines 60).
- 6. As to claims 3 and 12 Buffet et al. teach wherein VDDI, VDDSS and VDDN power supplies of said second voltage island may be independently coupled to VDDI, VDDSS and VDDN power supplies of said first voltage island or independently coupled to a VDDO power supply of non-voltage island portion of said integrated circuit or independently coupled to one or more external power supplies (see fig 4-6 col 6 lines 9 to col 7 lines 61).
- 7. As to claims 4 and 13 Buffet et al. teach wherein said hierarchal structure includes a VDDN power supply and voltage shifting means or said VDDN power supply and fencing means or said VDDN power supply and said voltage shifting means and said fencing means (see fig 4-6 col 6 lines 9 to col 7 lines 61).
- 8. As to claims 5 and 14 Buffet et al. teach wherein said communications means comprises logic latches (see fig 4-6 col 6 lines 9 to col 7 lines 61).
- 9. As to claims 6 and 15 Buffet et al. teach wherein said hierarchal structure further includes one or wherein said hierarchal more substructures selected from the group consisting of a VDDI

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power distribution network, state saving means, one or more switching elements coupled between said VDDN power supply and said VDDI power distribution network, a VDDSS and one or more voltage buffering circuits (see fig 6-9 col 7 lines 35 to col 8 lines 67).

- 10. As to claims 7 and 16 Buffet et al. teach wherein said one or more switching elements is selected from the group consisting of hard connections, voltage headers and footers (see fig 6-9 col 7 lines 35 to col 8 lines 67).
- 11. As to claims 8 and 17 Buffet et al. teach wherein said state saving means includes at least one state saving latch (see fig 6-9 col 7 lines 35 to col 8 lines 67).
- 12. As to claims 9 and 119 Buffet et al. teach further including a power management State machine, said power management state machine located in a non-voltage island portion of said integrated circuit for controlling said fencing means in said first voltage island or said second voltage island or both said first and said second voltage islands (see fig 4-6 col 6 lines 9 to col 7 lines 61).
- 13. As to claims 20 Buffet et al. teach wherein said hierarchal structure includes a VDDN power supply and voltage shifting means or said VDDN power supply and fencing means or said VDDN power supply, said voltage shifting means and said fencing means (see fig 4-6 col 6 lines 9 to col 7 lines 61).

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is (571) 272-1908. The examiner can normally be reached on 7:30 - 4:00 (M-F).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew Smith can be reached on (571) 272-1907. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-1908 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Binh Tat Art unit 2825 September 17, 2004

> ANNETTE W. THOMPSON PRIMARY EXAMINER